

## CLAIMS

1. A vehicle adaptive frontlighting system (AFS) comprising:
  - a) a movable headlight;
  - b) an electronical control unit (ECU);
  - c) an acceleration sensor;
  - d) whereby when the vehicle undergoes accelerations, said accelerations are sensed by said acceleration sensor whereby said ECU causes said movable headlight to move for aiming the headlight.
2. The AFS according to Claim 1 wherein said acceleration sensor detects acceleration in longitudinal and lateral directions.
3. The AFS according to Claim 1 wherein said sensor comprises a metal ball with a sphere filled with a fluid.
4. The AFS according to Claim 3 further including a first sensor positioned on the inside of said sphere, said first sensor being located at the back of the sphere so as to act to detect longitudinal acceleration.
5. The AFS according to Claim 4 further comprising a second sensor positioned on the inside of said sphere, said second sensor positioned on the inside of said sphere, said second sensor being located at the side of the sphere so as to act to detect lateral acceleration will act to turn the headlight.

6. The AFS according to Claim 1 wherein said AFS further comprises a switch on an instrument panel of the vehicle.

7. The AFS according to Claim 1 wherein said ECU causes said movable headlights to move without an input measuring the steering wheel angle of the vehicle.

8. A vehicle adaptive frontlighting system (AFS) for use with a movable headlight, comprising:

an electronic control unit (ECU);

an accelerator sensor for measuring lateral accelerations, whereby said ECU commands said movable headlights to move for aiming of the headlight in response to lateral accelerations.

9. The AFS according to Claim 8 further comprising said acceleration sensor for measuring longitudinal acceleration, whereby said ECU commands said movable headlight to move for aiming of the headlight in response to longitudinal acceleration.

10. The AFS according to Claim 8 wherein said AFS further comprises a switch on an instrument panel of the vehicle.

11. The AFS according to Claim 8 wherein said ECU causes said movable headlights to move without an input measuring the steering wheel angle of the vehicle.

12. A vehicle adaptive frontlighting system (AFS) for use with a movable headlight comprising:

an electronic control unit (ECU);

an acceleration sensor for measuring both lateral and longitudinal accelerations, whereby said ECU commands said movable headlight to move for aiming of the headlight in response to either said lateral or said longitudinal accelerations.

13. The AFS according to Claim 12 wherein said AFS further comprises a switch on an instrument panel of the vehicle.

14. The AFS according to Claim 12 wherein said ECU causes said movable headlights to move without an input measuring the steering wheel angle of the vehicle